

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:

**March
2012**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of month of publication on February, 2014. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

Table of Contents

	Page
Organization Page.....	ii
Table of Contents	iii
Monthly Highlights	1
 Oroville Field Division Water Operations	
Table	Page
1 Antelope Lake, Daily Operation.....	2
2 Frenchman Lake, Daily Operation.....	3
3 Lake Davis, Daily Operation.....	4
4 Lake Oroville, Daily Operation.....	5
5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation.....	6
6 Thermalito Afterbay, Daily Operation	7
7 Oroville-Thermalito Complex, Water Temperature Data	8
 Delta Field Division Water Operations	
8 North Bay Aqueduct, Delta Field Division	9
9 Delta Field Division Plant Data.....	10
10 Clifton Court Forebay, Daily Operation of Gates.....	11
11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries	12
12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries	13
13 Lake Del Valle, Daily Operation	14
 San Luis Field Division Water Operations	
14 Consolidated State-Federal O'Neill Forebay, Daily Operations	15
15 Consolidated State-Federal San Luis Reservoir, Daily Operations	16
16 San Luis Field Division Plant Data	17
17 Consolidated State-Federal Los Banos Reservoir, Daily Operations	18
18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations	19
19 Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries.....	20
20 Consolidated State-Federal San Luis Canal, Daily Operations	22
 San Joaquin Field Division Water Operations	
21 San Joaquin Field Division Plant Data	23
22 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries.....	24
23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch).....	27

Southern Field Division Water Operations

24	Southern Field Division Plant Data.....	28
25	Pyramid Lake, Daily Operation.....	29
26	Elderberry Forebay, Daily Operation.....	30
27	Castaic Lake, Daily Operation.....	31
28	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch).....	32
29	Silverwood Lake, Daily Operation	33
30	Lake Perris, Daily Operation	34
31	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch).....	35

Water Quality Operations

32	Water Quality at Selected SWP Locations	37
33	Water Quality at Selected Delta Stations	38
34	Pesticides, Herbicides, and Other Organic Substances Detected in the SWP.....	39

Energy Operations

35	Oroville and Delta Field Divisions Energy Data	40
36	San Luis Field Division Energy Data	41
37	San Joaquin Field Division Pumping Plant Energy Load Data	42
38	Southern Field Division Energy Data	43

MONTHLY HIGHLIGHTS

The following activities, actions, and conditions that affected State Water Project operations during March 2012:

Statewide precipitation was about 70 percent of average for the 2011 - 2012 water-year through March 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:
[“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. Snow pack water content for March 2012 was about 50 percent of average compared to 170 percent at this time in 2011. This was about 40 percent of the April 1 average, the normal date of maximum accumulation.

Cumulative unimpaired runoff for the Sacramento River Region for the 2011 - 2012 water-year was 5.7 maf, 52 percent of average. Statewide runoff for the 2011 - 2012 water-year was 50 percent of average.

Statewide reservoir storage was 105 percent of average to date. Total storage in major SWP reservoirs at the end of March was about 4.54 maf compared to 4.53 maf at this time in 2011. On March 31, end-of-month storage at Lake Oroville was about 2.94 maf, as compared to 2.84 maf at this time in 2011. The State share of San Luis Reservoir's end-of-month storage was about 1.00 maf, as compared with 1.07 maf at this time in 2011. The combined storage in SWP's southern reservoirs was about 604 taf, compared with about 622 taf at this time in 2011.

SWP water deliveries to date through March were about 725 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2011 were 886 taf.

COA conditions remained “In Excess” with accounting suspended in March. “Excess” conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports. The end-of-month USBR COA balance remained at 1,292 cfs in favor of the USBR, throughout the month.

There were two measurable earthquakes within the vicinity of the SWP during March; however, no facilities were found to meet inspection criteria. On March 1, units at Gianelli, Wind Gap, and Edmonston were forced out of service due to cooling and timer issues. On March 9, units at Badger Hill, Polonio Pass, and Bluestone Plants were forced out of service due to sync failures and low excitation voltage. The issues were resolved within the day.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Feb 29	4997.37	18,487									
1	4997.41	18,520	33	5	0	0	0	2	7	24	
2	4997.43	18,537	17	5	0	0	0	2	7	16	
3	4997.45	18,554	17	5	0	0	0	2	7	16	
4	4997.49	18,587	33	5	0	0	0	2	7	24	
5	4997.54	18,629	42	5	0	0	0	2	7	28	
6	4997.60	18,679	50	5	0	0	0	2	7	32	
7	4997.63	18,704	25	5	0	0	0	2	7	20	
8	4997.67	18,737	33	5	0	0	0	2	7	24	
9	4997.72	18,779	42	5	0	0	0	2	7	28	
10	4997.79	18,837	58	5	0	0	0	2	7	36	
11	4997.86	18,896	59	5	0	0	0	2	7	37	
12	4997.94	18,963	67	5	0	0	0	2	7	41	
13	4998.07	19,073	110	5	0	0	0	2	7	62	
14	4998.25	19,226	153	5	0	0	0	2	7	84	
15	4998.44	19,387	161	5	0	0	0	2	7	88	
16	4998.98	19,851	464	5	0	0	0	2	7	241	
17	4999.21	20,050	199	5	0	0	0	2	7	107	
18	4999.37	20,190	140	5	0	0	0	2	7	78	
19	4999.46	20,269	79	5	0	0	0	2	7	47	
20	4999.56	20,356	87	5	0	0	0	2	7	51	
21	4999.72	20,497	141	5	0	0	0	1	6	77	
22	4999.96	20,709	212	5	0	0	0	1	6	113	
23	5000.17	20,903	194	5	0	0	0	1	6	104	
24	5000.29	21,010	107	5	0	0	0	1	6	60	
25	5000.39	21,099	89	5	0	0	0	1	6	51	
26	5000.49	21,188	89	5	0	0	0	1	6	51	
27	5000.58	21,269	81	5	0	0	0	1	6	47	
28	5000.75	21,422	153	5	0	0	0	1	6	83	
29	5000.87	21,530	108	5	0	0	0	1	6	60	
30	5001.05	21,693	163	5	0	0	0	1	6	88	
31	5001.31	21,929	236	5	0	0	0	1	6	125	
Total cfs-days				---	155	0	0	51	206	1,942	
Total ac-ft				3,442	307	0	0	102	409	3,851	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Feb 29	5580.28	44,099									
1	5580.28	44,099	0	2	0	0	0	2	4	4	
2	5580.31	44,140	41	2	0	0	0	2	4	25	
3	5580.32	44,154	14	2	0	0	0	2	4	11	
4	5580.32	44,154	0	2	0	0	0	2	4	4	
5	5580.33	44,167	13	2	0	0	0	2	4	11	
6	5580.37	44,222	55	2	0	0	0	2	4	32	
7	5580.38	44,236	14	2	0	0	0	2	4	11	
8	5580.37	44,222	-14	2	0	0	0	2	4	-3	
9	5580.39	44,250	28	2	0	0	0	2	4	18	
10	5580.38	44,236	-14	2	0	0	0	2	4	-3	
11	5580.38	44,236	0	2	0	0	0	3	5	5	
12	5580.39	44,250	14	2	0	0	0	3	5	12	
13	5580.32	44,154	-96	2	0	0	0	3	5	-43	
14	5580.32	44,154	0	2	0	0	0	3	5	5	
15	5580.38	44,236	82	2	0	0	0	3	5	46	
16	5580.45	44,332	96	2	0	0	0	3	5	53	
17	5580.69	44,664	332	2	0	0	0	3	5	172	
18	5580.74	44,733	69	2	0	0	0	3	5	40	
19	5580.72	44,706	-27	2	0	0	0	3	5	-9	
20	5580.74	44,733	27	2	0	0	0	3	5	19	
21	5580.78	44,784	51	2	0	0	0	3	5	31	
22	5580.86	44,900	116	2	0	0	0	3	5	63	
23	5580.91	44,969	69	2	0	0	0	3	5	40	
24	5580.95	45,025	56	2	0	0	0	3	5	33	
25	5580.99	45,080	55	2	0	0	0	3	5	33	
26	5581.02	45,122	42	2	0	0	0	3	5	26	
27	5581.05	45,164	42	2	0	0	0	3	5	26	
28	5581.09	45,220	56	2	0	0	0	3	5	33	
29	5581.09	45,220	0	2	0	0	0	3	5	5	
30	5581.11	45,247	27	2	0	0	0	3	5	19	
31	5581.24	45,429	182	2	0	0	0	3	5	97	
Total cfs-days				---	62	0	0	83	145	816	
Total ac-ft				1,330	123	0	0	165	288	1,618	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Feb-29	5769.12	62,471									
1	5769.13	62,506	35	10	0	0	0	6	16	34	
2	5769.11	62,437	-69	10	0	0	0	6	16	-18	
3	5769.10	62,403	-34	10	0	0	0	6	16	-1	
4	5769.09	62,369	-34	10	0	0	0	6	16	-1	
5	5769.07	62,300	-69	10	0	0	0	6	16	-18	
6	5769.11	62,437	137	10	0	0	0	6	16	85	
7	5769.09	62,369	-68	10	0	0	0	6	16	-18	
8	5769.08	62,335	-34	10	0	0	0	6	16	-1	
9	5769.07	62,300	-35	10	0	0	0	6	16	-1	
10	5769.04	62,198	-102	10	0	0	0	6	16	-35	
11	5769.05	62,232	34	10	0	0	0	6	16	33	
12	5769.07	62,300	68	10	0	0	0	6	16	51	
13	5769.11	62,437	137	10	0	0	0	6	16	85	
14	5769.18	62,677	240	10	0	0	0	7	17	138	
15	5769.22	62,814	137	10	0	0	0	7	17	86	
16	5769.35	63,261	447	10	0	0	0	7	17	242	
17	5769.58	64,056	795	10	0	0	0	7	17	418	
18	5769.64	64,265	209	10	0	0	0	7	17	122	
19	5769.64	64,265	0	10	0	0	0	7	17	17	
20	5769.64	64,265	0	10	0	0	0	7	17	17	
21	5769.67	64,369	104	10	0	0	0	7	17	69	
22	5769.72	64,543	174	10	0	0	0	7	17	105	
23	5769.75	64,648	105	10	0	0	0	7	17	70	
24	5769.78	64,752	104	10	0	0	0	7	17	69	
25	5769.78	64,752	0	10	0	0	0	7	17	17	
26	5769.80	64,822	70	10	0	0	0	7	17	52	
27	5769.80	64,822	0	10	0	0	0	7	17	17	
28	5769.87	65,067	245	10	0	0	0	7	17	141	
29	5769.88	65,102	35	10	0	0	0	7	17	35	
30	5769.91	65,207	105	10	0	0	0	7	17	70	
31	5770.06	65,734	527	10	0	0	0	7	17	283	
Total cfs-days				---	310	0	0	209	519	2,164	
Total ac-ft				3,263	615	0	0	414	1,029	4,292	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 0 AF Plumas County and 0 AF Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Feb 29	827.66	2,519,619										
	1	827.55	2,518,250	-1,369	5,766	2	0	0	42	0	5,810	0
	2	827.40	2,516,385	-1,865	5,703	2	0	0	34	0	5,739	0
	3	827.15	2,513,279	-3,106	5,752	2	0	0	27	0	5,781	0
	4	827.01	2,511,541	-1,738	5,067	2	0	0	27	0	5,096	0
	5	827.07	2,512,285	744	4,859	2	0	0	241	0	5,102	0
	6	826.92	2,510,423	-1,862	3,731	2	0	0	121	0	3,854	0
	7	826.94	2,510,672	249	3,635	4	0	0	141	0	3,780	0
	8	826.89	2,510,051	-621	3,934	5	0	0	161	0	4,100	0
	9	826.90	2,510,175	124	3,685	5	0	0	107	0	3,797	0
	10	826.89	2,510,051	-124	3,737	4	0	0	54	0	3,795	0
	11	826.89	2,510,051	0	3,727	4	0	0	54	0	3,785	0
	12	826.94	2,510,672	621	3,879	4	0	0	134	0	4,017	0
	13	827.77	2,520,987	10,315	3,690	3	0	0	101	0	3,794	0
	14	831.29	2,565,066	44,079	5,967	2	0	0	0	0	5,969	0
	15	834.43	2,604,839	39,773	6,059	2	0	0	0	0	6,061	0
	16	840.28	2,680,080	75,241	4,742	2	0	0	55	0	4,799	0
	17	845.38	2,746,857	66,777	662	2	0	0	0	0	664	0
	18	847.73	2,778,016	31,159	1,542	2	0	0	0	0	1,544	0
	19	849.29	2,798,836	20,820	1,700	2	0	0	151	0	1,853	0
	20	850.37	2,813,314	14,478	3,727	3	0	0	51	0	3,781	0
	21	851.41	2,827,305	13,991	2,392	3	0	0	51	0	2,446	0
	22	852.34	2,839,858	12,553	3,228	3	0	0	73	0	3,304	0
	23	853.32	2,853,128	13,270	3,228	2	0	0	81	0	3,311	0
	24	854.07	2,863,313	10,185	3,416	2	0	0	37	0	3,455	0
	25	854.77	2,872,842	9,529	3,212	2	0	0	0	0	3,214	0
	26	855.05	2,876,659	3,817	7,235	2	0	0	89	0	7,326	0
	27	855.54	2,883,349	6,690	4,077	2	0	0	59	0	4,138	0
	28	856.70	2,899,230	15,881	3,286	2	0	0	74	0	3,362	0
	29	857.70	2,912,970	13,740	2,730	2	0	0	37	0	2,769	0
	30	858.61	2,925,513	12,543	3,167	2	0	1	60	0	3,230	0
	31	859.84	2,942,527	17,014	3,091	2	1	1	0	0	3,095	0
Total				422,908	120,626	78	1	2	2,062	0	122,769	0
1/ Includes bypass flows.												
2/ South Feather Water and Power Agency.												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

1/ Includes bypass flows.

2/ South Feather Water and Power Agency.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

March 2012

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Feb 29	24,515										
1	24,357	-158	5,766	46	0	4,039	1	3	1,347	0	-580
2	24,402	45	5,703	229	0	4,364	1	3	1,353	0	-166
3	24,420	18	5,752	47	0	4,262	0	3	1,347	0	-169
4	24,713	293	5,067	47	0	3,146	0	3	1,341	0	-331
5	24,026	-687	4,859	47	0	4,077	0	3	1,343	0	-170
6	24,385	359	3,731	47	0	1,948	0	3	1,349	0	-119
7	24,000	-385	3,635	53	0	2,784	0	3	1,345	0	59
8	24,979	979	3,934	47	0	1,277	0	3	1,347	0	-375
9	24,531	-448	3,685	46	0	2,863	0	3	1,345	0	32
10	24,331	-200	3,737	46	0	2,648	0	3	1,345	0	13
11	23,903	-428	3,727	45	0	2,785	0	3	1,349	0	-63
12	24,550	647	3,879	47	0	1,731	0	3	1,351	0	-194
13	24,610	60	3,690	107	0	2,476	0	3	1,351	0	93
14	24,730	120	5,967	420	0	5,842	0	3	1,367	0	945
15	25,093	363	6,059	473	0	4,973	0	3	1,347	0	154
16	25,190	97	4,742	473	0	4,424	0	3	1,365	0	674
17	24,799	-391	662	478	0	467	0	3	1,347	0	286
18	24,354	-445	1,542	482	0	1,243	0	3	1,355	0	132
19	24,395	41	1,700	482	0	760	0	3	1,355	0	-23
20	24,654	259	3,727	481	0	2,535	0	3	1,353	0	-58
21	24,630	-24	2,392	482	0	3,060	0	3	1,349	0	1,514
22	24,581	-49	3,228	359	0	2,406	0	3	1,349	0	122
23	24,787	206	3,228	327	0	1,921	0	3	1,353	0	-72
24	24,610	-177	3,416	249	0	2,360	0	3	1,355	0	-124
25	24,919	309	3,212	212	0	1,934	0	3	1,361	0	183
26	23,718	-1,201	7,235	156	0	6,200	0	3	1,357	0	-1,032
27	24,714	996	4,077	156	0	1,579	0	3	1,369	0	-286
28	24,748	34	3,286	345	0	2,911	0	3	1,373	0	690
29	24,617	-131	2,730	425	0	2,112	0	3	1,357	0	186
30	24,547	-70	3,167	485	0	2,543	0	1	1,363	0	185
31	24,797	250	3,091	486	0	2,104	0	0	1,363	0	140
Total		282	120,626	7,825	0	87,774	2	88	41,951	0	1,646

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Feb 29	129.07	29,131										
1	129.70	31,162	2,031	4,039	0	0	0	0	2,241	0	233	3,588
2	130.28	33,088	1,926	4,364	0	0	0	0	2,241	0	-197	3,594
3	130.89	35,173	2,085	4,262	0	0	0	0	2,222	0	45	3,569
4	131.16	36,115	942	3,146	0	0	0	0	2,222	0	18	3,563
5	131.70	38,034	1,919	4,077	0	0	0	0	2,241	0	83	3,584
6	131.51	37,353	-681	1,948	0	0	0	0	2,222	0	-407	3,571
7	131.60	37,675	322	2,784	0	0	0	0	2,241	0	-221	3,586
8	131.41	36,998	-677	1,277	0	0	0	0	2,222	0	268	3,569
9	131.51	37,353	355	2,863	0	0	0	0	2,241	0	-267	3,586
10	131.67	37,926	573	2,648	0	0	0	0	2,241	0	166	3,586
11	131.68	37,962	36	2,785	0	0	0	0	2,241	0	-508	3,590
12	131.62	37,747	-215	1,731	0	0	0	0	2,222	0	276	3,573
13	131.71	38,070	323	2,476	0	0	0	0	2,241	0	88	3,592
14	132.62	41,409	3,339	5,842	0	0	0	0	2,241	0	-262	3,608
15	133.37	44,259	2,850	4,973	0	0	0	0	2,241	0	118	3,588
16	133.94	46,484	2,225	4,424	0	0	0	0	2,241	0	42	3,606
17	133.48	44,684	-1,800	467	0	0	0	0	2,222	0	-45	3,569
18	133.23	43,720	-964	1,243	0	0	0	0	2,241	0	34	3,596
19	132.87	42,349	-1,371	760	0	0	0	0	2,222	0	91	3,577
20	132.91	42,501	152	2,535	0	0	0	0	2,241	0	-142	3,594
21	132.69	41,671	-830	3,060	0	0	0	0	2,222	0	-1,668	3,571
22	132.73	41,822	151	2,406	0	0	0	0	2,222	0	-33	3,571
23	132.58	41,260	-562	1,921	0	0	0	0	2,241	0	-242	3,594
24	132.54	41,110	-150	2,360	0	0	0	0	2,241	0	-269	3,596
25	132.41	40,627	-483	1,934	0	0	0	0	2,241	0	-176	3,602
26	133.59	45,112	4,485	6,200	0	0	0	0	2,241	0	526	3,598
27	133.72	45,619	507	1,579	0	0	0	0	2,241	0	1,169	3,610
28	133.80	45,932	313	2,911	0	0	0	0	2,241	0	-357	3,614
29	133.74	45,697	-235	2,112	0	0	0	0	2,241	0	-106	3,598
30	133.78	45,854	157	2,543	0	0	0	0	2,241	0	-145	3,604
31	133.77	45,815	-39	2,104	0	0	0	0	2,241	0	98	3,604
Total			16,684	87,774	0	0	0	0	69,300	0	-1,790	111,251

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

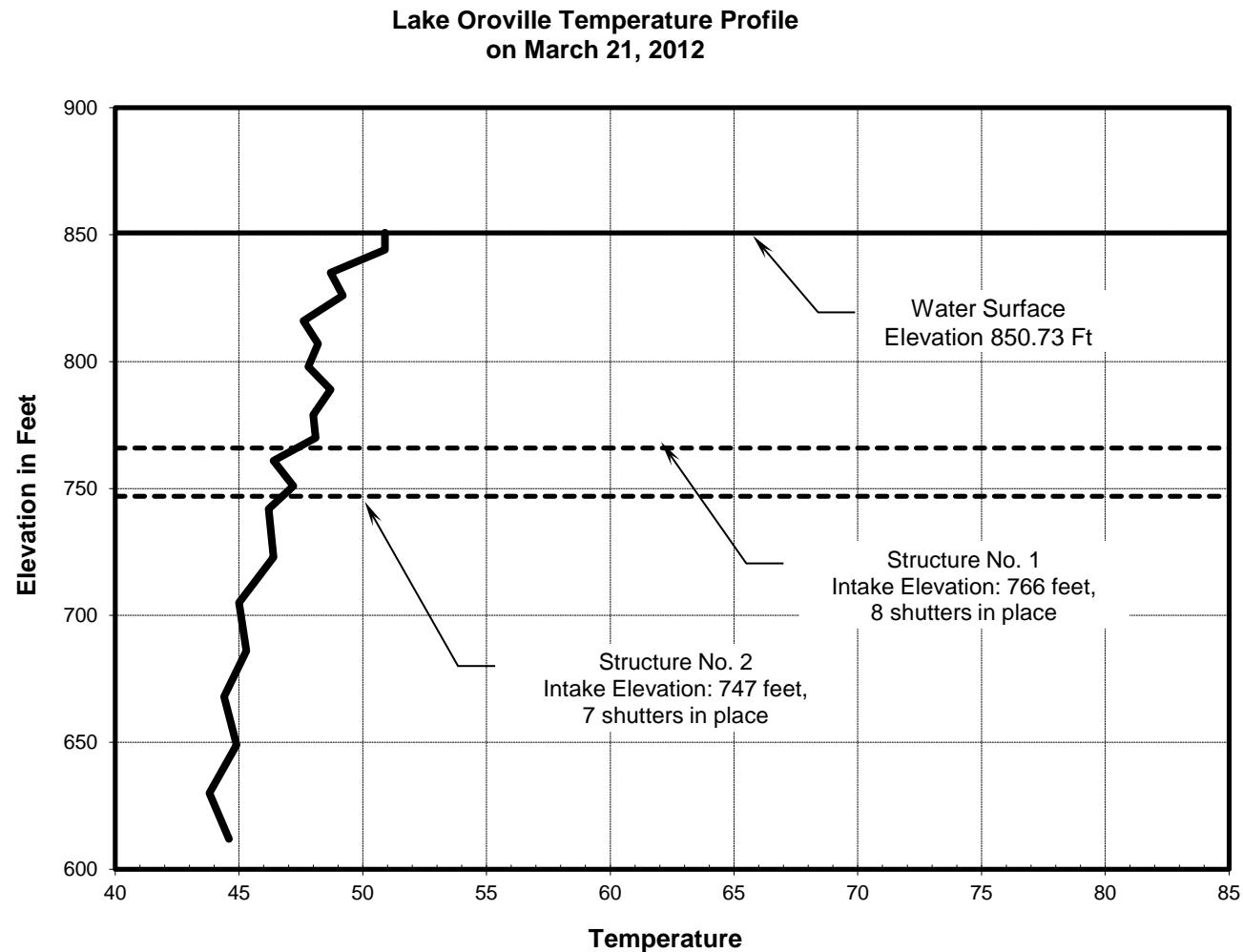
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

March 2012

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	47.3	46.8
2	47.3	46.3
3	48.1	46.7
4	49.4	47.7
5	49.5	48.2
6	50.1	48.6
7	49.0	48.6
8	49.1	48.6
9	50.1	49.0
10	44.6	49.1
*11	0.0	49.0
12	50.5	49.1
13	50.5	48.6
14	50.5	48.0
15	51.0	47.4
16	51.2	47.5
17	51.6	48.0
18	51.1	47.9
19	50.9	48.2
20	51.5	48.3
21	52.0	48.4
22	53.1	48.4
23	52.6	48.7
24	52.3	48.4
25	52.2	48.1
26	52.1	48.2
27	51.8	48.2
28	51.6	48.1
29	52.0	48.4
30	52.3	48.3
31	53.2	48.3



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

* Data missing due to a system upgrade.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Permit	Article 21	Article 56	Settlement Water		
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	332	1/ 2	41	16	16	48		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	0							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	32							
				Solano County Water Agency Fairfield / Vacaville 42"	96							
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23		0							
3A	2	Cordelia Pumping Plant & Cordelia Spillway	21.30		170	1/ 2	41	39	1	87		
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	82							
				Solano County Water Agency Benicia	0							
		Cordelia Surge Tank	23.33		0							
		Creston Surge Tank Connection	25.65		0							
			26.95	Napa County Flood Control & WCD American Canyon 2	1							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
3B		Napa Terminal Tank	27.58	City of Napa	0							
			27.60	Napa County Flood Control & WCD American Canyon 1	87							

1/ Solano Permit water sold to American Canyon, delivered to Cordelia Forebay and pumped to American Canyon via Reach 3B.

Table 9. Delta Field Division Plant Data

(in acre-feet)

March 2012

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	22	20	1,438	1,438	0	0	347	0	0	0
2	16	9	2,748	2,748	0	0	344	0	0	0
3	48	27	2,643	2,643	0	0	353	0	0	0
4	57	32	2,984	2,984	0	0	375	0	0	0
5	34	12	1,674	1,674	0	0	368	0	0	0
6	39	20	2,928	2,928	0	0	376	0	0	0
7	45	22	2,928	2,928	0	0	18	0	0	16
8	19	6	2,928	2,928	0	0	378	0	0	9
9	6	8	2,370	2,370	0	0	402	0	0	0
10	0	12	2,184	2,184	0	0	389	0	0	0
11	0	2	2,147	2,147	0	0	201	0	0	0
12	0	0	2,184	2,184	0	0	284	0	0	0
13	0	0	744	744	0	0	245	0	0	0
14	0	0	744	744	0	0	254	0	0	0
15	0	0	744	744	0	0	212	0	0	16
16	0	0	744	744	0	0	212	0	0	7
17	0	0	896	896	0	0	253	0	0	0
18	0	0	2,184	2,184	0	0	217	0	0	0
19	0	0	2,928	2,928	0	0	19	0	0	175
20	0	0	4,359	4,359	0	0	30	0	0	190
21	0	0	4,368	4,368	0	0	180	0	0	0
22	0	0	3,288	3,288	0	0	172	0	0	0
23	0	0	2,370	2,370	0	0	162	0	0	0
24	0	0	2,184	2,184	0	0	197	0	0	0
25	0	0	744	744	0	0	197	0	0	0
26	0	0	744	744	0	0	216	0	0	0
27	0	0	2,175	2,175	0	0	295	0	0	0
28	0	0	4,328	4,328	0	0	260	0	0	0
29	0	0	6,607	6,607	0	0	330	0	0	0
30	23	0	10,434	10,434	0	0	296	0	1	0
31	23	0	10,136	10,136	0	0	353	0	2	0
Total	332	170	89,877	89,877	0	0	7,935	0	3	413

Table 10. Clifton Court Forebay
Daily Operation of Gates

March 2012

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	00:01	09:20									2,954
2	00:01	06:06	18:20	20:30							1,974
3	00:01	06:45	10:35	12:30	16:35	17:33					2,965
4	00:15	07:30									2,963
5	01:00	09:00	10:10	14:00							2,964
6	01:45	13:15									2,950
7	02:15	15:30	18:15	20:05							2,965
8	03:00	08:50									2,955
9	03:30	06:20									1,567
10	00:01	05:20									1,174
11	00:01	05:15									1,176
12	00:40	05:40									1,176
13	01:00	08:30	11:15	16:05							1,173
14	01:30	06:00									1,173
15	00:01	10:45	14:05	16:58							1,581
16	00:01	12:15	15:02								1,968
17		13:30	15:45	18:05							1,972
18	01:15	14:30	17:00	23:00							2,958
19	02:30	15:30	17:45	22:30							2,972
20	02:45	16:15	18:45	20:35							2,966
21	03:15	16:45	20:00	22:25							2,952
22	00:01	01:00	04:00	13:30	16:30						2,948
		05:30	08:15	14:00	17:00	21:30					1,962
24	00:01	06:00	08:45	14:30	17:30	18:00					1,970
25	00:01	06:30	09:15	15:15	18:15	21:20					1,961
26	00:01	07:00	18:45	23:30							1,964
27	00:01	07:45	19:30	22:50							2,003
28	00:20	08:15	20:15								3,950
		09:15	11:45	18:30	21:30						5,941
30		10:30	12:45	19:30	22:30						9,911
31		11:45	13:45	20:30	23:30						9,615
Total inflow for the month in AF:											89,723

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

March 2012

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Article 56C	Local	Loan Water	USBR	
	No.	Structure	Mile							
1A			1.83	Byron-Bethany I.D.	912					
1	1	Banks Pumping Plant	3.32		89,877					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	7,935					
		Check No. 1	5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0					
	2	Check No. 2	12.01							
	3		12.47	Musco Olive	46					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
2A	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
	8		42.46	Oak Flat Water District-A	11					
			42.9	Western Hills WD	38	38	11			
			43.81	Oak Flat Water District-B	0					
			44.64	Oak Flat Water District-C	24		24			
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	24		24			
				Oak Flat Totals:	59	0	59	0	0	
2B	Check No. 9	51.3								
	10	Check No. 10	56.86							
	11	Check No. 11	61.4							
	12		66.14	Veteran's Cemetery	4					
		Check No. 12	66.71		80,493				4	

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

March 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending		No.			Table A	Article 56	Article 14B	Local	Recre-ation			
	No.	Structure	Mile										
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	7,935	4	677	677					
			3.17	Granite - Vasco Rd. (Temp.)	0								
			3.18	Oakland Scavenger Zone 7	4								
		Check No. 1	3.91										
	2	Check No. 2	5.21										
2	3		7.21	Zone 7 Altamont	0	81	69	6	598				
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	677								
				Zone 7 Patterson Project Water	0								
4	4	Check No. 4	10.68			49	35	49	453	257			
	5	Check No. 5	12.29										
	6		13.55	Zone 7 Wente #1	81								
			14.16	Zone 7 Wente #2	69								
			14.31	Ising Project Water	6								
		Check No. 6	14.65										
	7		14.78	Zone 7 Arroyo Mocho Project Water	598		598						
		Check No. 7	16.38										
	8		16.57	Zone 7 Wente #3	0		1,142	1,142	3				
			16.63	Zone 7 Wente #4	49								
			16.69	Zone 7 Norman Nursery	0								
			16.70	Zone 7 Concannon Project Water	35								
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0								
				Pumped into South Bay Aqueduct	3								
				Gravity into South Bay Aqueduct	413								
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Storage Exchange:	453	125	44	1,142	453	257			
				Project Water	125								
				Storage Released	0								
				Inflow Release	257								
				East Bay Regional Park Dist.									
				Del Valle Recreation	3								
6			Zone 7 Wente #5		44	31	1,728	1,728	3,039				
				So. Livermore Project	1,142								
				So. Livermore Inflow Released	0								
				So. Livermore Stored Exchanged	0								
7		La Costa Tunnel	19.20	Zone 7 - Kalthrof Detjens	31	1,142	1,728	1,728	3,039				
				ACWD									
				Vallecitos Project Water	0								
8		Mission Tunnel	22.50	City of San Francisco		1,728	1,728	1,728	3,039				
				San Antonio	0								
9		Santa Clara Pipeline	25.97	ACWD - Bayside 1 & 2 Project Water		1,728	1,728	1,728	3,039				
				Storage Released	0								
				Storage Exchange:	0								

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

Capacity: 77,106 ac-ft

March 2012

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Feb 29	685.38	28,682									
1	685.39	28,688	6	8	0	0	0	1	2	3	0.08
2	685.40	28,694	6	8	0	0	0	1	2	3	0.07
3	685.39	28,688	-6	-1	0	0	0	1	4	5	0.00
4	685.41	28,699	11	17	0	0	0	0	6	6	0.00
5	685.39	28,688	-11	-8	0	0	0	0	4	4	0.00
6	685.37	28,677	-11	-4	0	0	0	0	8	8	0.06
7	685.36	28,671	-6	16	0	0	16	0	5	21	0.00
8	685.35	28,665	-6	8	0	0	9	0	5	14	0.00
9	685.35	28,665	0	5	0	0	0	0	5	5	0.00
10	685.35	28,665	0	6	0	0	0	0	6	6	0.00
11	685.34	28,660	-6	-2	0	0	0	0	4	4	0.00
12	685.33	28,654	-6	-2	0	0	0	0	3	3	0.00
13	685.34	28,660	6	10	0	0	0	0	4	4	0.00
14	685.35	28,665	6	6	0	0	0	0	1	1	0.03
15	685.34	28,660	-6	13	0	0	16	0	2	18	0.00
16	685.42	28,705	45	54	0	0	7	0	2	9	0.05
17	685.51	28,756	51	54	0	0	0	0	3	3	0.90
18	685.55	28,778	23	24	0	0	0	0	1	1	0.04
19	685.22	28,592	-186	-6	0	0	175	0	5	180	0.00
20	684.97	28,452	-140	54	0	0	190	0	4	194	0.00
21	684.97	28,452	0	3	0	0	0	0	3	3	0.00
22	684.97	28,452	0	4	0	0	0	0	4	4	0.00
23	684.97	28,452	0	5	0	0	0	0	5	5	0.00
24	684.99	28,463	11	16	0	0	0	0	5	5	0.00
25	685.10	28,525	62	62	0	0	0	0	0	0	1.08
26	685.12	28,536	11	12	0	0	0	0	1	1	0.35
27	685.17	28,564	28	33	0	0	0	0	5	5	0.04
28	685.21	28,587	22	22	0	0	0	0	0	0	0.27
29	685.23	28,598	11	13	0	0	0	0	2	2	0.00
30	685.23	28,598	0	3	0	0	1	0	2	3	0.00
31	685.30	28,637	39	44	0	0	2	0	3	5	0.00
Total			-45	479	0	0	416	3	105	524	2.97

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

March 2012

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/	
Feb 29	224.43	54,887										
1	224.38	54,752	-135	0	624	1,741	595	0	0	2,743	12	-273
2	223.94	53,565	-1,187	0	494	498	1,349	0	0	1,900	8	-1,031
3	223.99	53,700	135	0	214	0	1,171	0	164	1,615	2	464
4	222.46	49,607	-4,093	0	156	583	1,175	0	2,320	1,406	2	-250
5	223.81	53,216	3,609	0	178	2,516	1,014	0	0	1,514	14	-360
6	224.29	54,508	1,292	0	57	601	1,383	0	0	1,388	11	9
7	224.11	54,023	-485	0	0	414	1,339	0	0	1,882	6	-110
8	223.14	51,420	-2,603	0	0	0	1,194	0	765	1,930	10	199
9	221.30	46,547	-4,873	0	408	0	1,065	0	1,499	2,175	10	-246
10	221.04	45,865	-682	0	821	0	741	0	0	1,688	12	-206
11	220.98	45,708	-157	0	862	0	1,161	0	1,490	722	8	114
12	220.85	45,368	-340	0	951	0	971	0	373	1,832	8	120
13	219.88	42,841	-2,527	0	1,057	0	299	0	482	2,220	12	84
14	218.87	40,255	-2,586	0	1,277	0	250	0	0	2,719	8	-104
15	219.22	41,145	890	0	1,343	2,010	152	0	0	2,834	12	-210
16	220.09	43,386	2,241	0	1,486	2,010	156	0	0	2,378	12	-132
17	221.87	48,045	4,659	0	2,461	1,751	227	0	0	2,065	16	-9
18	223.25	51,714	3,669	0	3,007	0	571	0	0	1,839	14	125
19	224.24	54,374	2,660	0	3,002	0	1,883	0	2,162	1,385	6	9
20	223.25	51,714	-2,660	0	3,014	0	1,292	0	4,227	1,467	6	53
21	222.97	50,966	-748	0	2,782	0	3,076	0	4,928	1,427	8	128
22	222.09	48,624	-2,342	0	2,726	0	1,135	0	3,791	1,207	10	-34
23	220.95	45,629	-2,995	0	2,380	0	1,033	0	3,407	1,562	10	56
24	219.76	42,531	-3,098	0	2,260	0	809	0	3,344	1,438	10	161
25	218.37	38,995	-3,536	0	2,417	0	369	0	3,258	1,499	10	198
26	218.66	39,724	729	0	2,384	0	333	0	1,890	405	8	-46
27	218.88	40,280	556	0	2,272	0	776	0	1,890	927	8	57
28	218.93	40,407	127	0	1,371	0	1,564	0	1,890	1,015	8	42
29	219.54	41,964	1,557	0	674	0	3,377	0	1,890	1,245	14	-117
30	221.48	47,020	5,056	0	697	0	5,242	0	1,900	1,272	14	-204
31	222.67	50,166	3,146	0	702	0	4,930	0	1,915	2,092	12	-27
Total		-4,721	0	42,077	12,124	40,632	0	43,585	51,791	301	-1,540	
Mean cfs		---	0	1,357	391	1,311	0	1,406	1,671	10	-50	
Acre-feet		-4,721	0	83,385	24,051	80,493	0	86,331	102,668	597	-3,054	

1/ Pump-in located at Mile 79.67R.

2/ Includes 51 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., 1 Af to the Cattle Program, and 545 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

March 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Feb 29	518.24	1,721,829						
1	517.88	1,717,508	-4,321	0	1,741	218	0	-219
2	517.75	1,715,949	-1,559	0	498	222	0	-66
3	517.71	1,715,470	-479	164	0	219	0	-186
4	517.95	1,718,348	2,878	2,320	583	222	0	-64
5	517.50	1,712,952	-5,396	0	2,516	247	0	43
6	517.33	1,710,915	-2,037	0	601	241	0	-185
7	517.19	1,709,238	-1,677	0	414	246	0	-185
8	517.24	1,709,837	599	765	0	256	0	-207
9	517.40	1,711,754	1,917	1,499	0	265	0	-268
10	517.39	1,711,634	-120	0	0	241	0	181
11	517.51	1,713,072	1,438	1,490	0	225	0	-508
12	517.56	1,713,671	599	373	0	184	0	113
13	517.60	1,714,151	480	482	0	150	0	-90
14	517.59	1,714,031	-120	0	0	153	0	93
15	517.26	1,710,077	-3,954	0	2,010	159	0	176
16	516.90	1,705,766	-4,311	0	2,010	202	0	39
17	516.66	1,702,895	-2,871	0	1,751	198	0	502
18	516.62	1,702,417	-478	0	0	181	0	-60
19	516.84	1,705,048	2,631	2,162	0	174	0	-662
20	517.45	1,712,353	7,305	4,227	0	190	0	-354
21	518.21	1,721,469	9,116	4,928	0	217	0	-115
22	518.75	1,727,956	6,487	3,791	0	215	0	-306
23	519.23	1,733,729	5,773	3,407	0	213	0	-283
24	519.67	1,739,027	5,298	3,344	0	217	0	-456
25	520.19	1,745,296	6,269	3,258	0	167	0	70
26	520.42	1,748,071	2,775	1,890	0	164	0	-327
27	520.70	1,751,452	3,381	1,890	0	122	0	-63
28	520.95	1,754,472	3,020	1,890	0	119	0	-248
29	521.20	1,757,494	3,022	1,890	0	140	0	-226
30	521.46	1,760,638	3,144	1,900	0	115	0	-200
31	521.73	1,763,906	3,268	1,915	0	151	.5	-116
Total			42,077	43,585	12,124	6,033	0	-4,177
Mean cfs			---	1,406	391	195	0	-135
Acre-feet			42,077	86,331	24,051	11,947	1	-8,255

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 11,135 AF, Casa De Fruta 0 AF, and San Benito 812 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

March 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	5,441	-2,303	3,454	-245	0	0	432
2	3,768	-1,943	987	-2,202	0	0	440
3	3,203	-2,614	0	0	326	326	435
4	2,789	-1,146	1,157	16	4,602	4,602	440
5	3,004	-957	4,991	-1,867	0	0	489
6	2,754	-1,202	1,192	-3,752	0	0	479
7	3,733	1,754	822	-3,150	0	0	487
8	3,829	3,477	0	0	1,517	1,517	507
9	4,314	3,970	0	0	2,974	-80	526
10	3,348	3,010	0	0	0	0	479
11	1,372	1,052	0	0	2,832	-86	428
12	3,633	3,294	0	0	739	-24	365
13	4,403	4,054	0	0	957	0	298
14	5,393	3,917	0	0	0	0	303
15	5,621	4,106	3,987	3,987	0	0	315
16	4,717	3,170	3,987	3,987	0	0	401
17	4,095	2,572	3,474	3,474	0	0	393
18	3,647	1,951	0	0	0	0	359
19	2,748	1,161	0	0	4,289	4,289	345
20	2,910	1,341	0	0	8,385	8,385	377
21	2,830	1,391	0	0	9,774	5,240	430
22	2,394	1,192	0	0	7,520	662	426
23	3,099	1,907	0	0	6,758	3,077	422
24	2,852	1,659	0	0	6,633	-152	430
25	2,973	1,841	0	0	6,463	2,965	332
26	804	-292	0	0	3,749	85	325
27	1,838	668	0	0	3,749	84	242
28	2,013	824	0	0	3,749	2,833	236
29	2,470	1,367	0	0	3,749	3,749	278
30	2,524	1,301	0	0	3,768	3,768	228
31	4,149	2,927	0	0	3,798	3,798	300
Total	102,668	43,449	24,051	248	86,331	45,038	11,947

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

March 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Feb 29	324.63	19,116					
1	324.63	19,116	0	0	0	0	0
2	324.61	19,107	-9	0	0	0	-9
3	324.62	19,112	5	3	0	0	-1
4	324.62	19,112	0	0	0	0	0
5	324.62	19,112	0	0	0	0	0
6	324.59	19,098	-14	0	0	0	-14
7	324.57	19,089	-9	0	0	0	-9
8	324.56	19,085	-4	0	0	0	-4
9	324.57	19,089	4	2	0	0	0
10	324.56	19,085	-4	0	0	0	-4
11	324.55	19,080	-5	0	0	0	-5
12	324.56	19,085	5	3	0	0	-1
13	324.54	19,076	-9	0	0	0	-9
14	324.55	19,080	4	2	0	0	0
15	324.56	19,085	5	3	0	0	-1
16	324.57	19,089	4	2	0	0	0
17	324.64	19,121	32	16	0	0	0
18	324.62	19,112	-9	0	0	0	-9
19	324.61	19,107	-5	0	0	0	-5
20	324.61	19,107	0	0	0	0	0
21	324.62	19,112	5	3	0	0	-1
22	324.62	19,112	0	0	0	0	0
23	324.62	19,112	0	0	0	0	0
24	324.59	19,098	-14	0	0	0	-14
25	324.60	19,103	5	3	0	0	-1
26	324.59	19,098	-5	0	0	0	-5
27	324.58	19,094	-4	0	0	0	-4
28	324.58	19,094	0	0	0	0	0
29	324.57	19,089	-5	0	0	0	-5
30	324.57	19,089	0	0	0	0	0
31	324.56	19,085	-4	0	0	0	-4
Total			-31	37	0	0	-105
Mean cfs			---	1	0	0	---
Acre-feet			-31	73	0	0	-104

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

March 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Feb 29	602.20	803					
1	602.20	803	0	0	0	0	0
2	Not Observed			0	0	0	0
3	Not Observed			0	0	0	0
4	Not Observed			0	0	0	0
5	Not Observed			0	0	0	0
6	Not Observed			0	0	0	0
7	Not Observed			0	0	0	0
8	Not Observed			0	0	0	0
9	602.20	803	0	0	0	0	0
10	Not Observed			0	0	0	0
11	Not Observed			0	0	0	0
12	Not Observed			0	0	0	0
13	Not Observed			0	0	0	0
14	602.20	803	0	0	0	0	0
15	Not Observed			0	0	0	0
16	Not Observed			0	0	0	0
17	602.30	809	6	3	0	0	0
18	602.40	815	6	3	0	0	0
19	602.40	815	0	0	0	0	0
20	Not Observed			0	0	0	0
21	Not Observed			0	0	0	0
22	Not Observed			0	0	0	0
23	602.50	821	6	3	0	0	0
24	Not Observed			0	0	0	0
25	Not Observed			0	0	0	0
26	602.50	821	0	0	0	0	0
27	Not Observed			0	0	0	0
28	Not Observed			0	0	0	0
29	Not Observed			0	0	0	0
30	Not Observed			0	0	0	0
31	602.60	826	5	3	0	0	-1
Total			23	12	0	0	-1
Mean cfs			---	0	0	0	---
Acre-feet			23	24	0	0	-1

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		80,493						
3A		San Luis Reservoir		Department of Parks and Recreation	1	11,135	812	1	0		
				San Felipe Division Santa Clara Water District	11,135						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	812						
				Reach 3A Subtotal:	11,948		11,947	0	1		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation		51	28	0	0		
				Cattle Program	1						
				Department of Fish & Game	51						
		Thru	70.91			545	545	29	23		
			85.08	San Luis Water District	545						
				(Floodwater Inflow)							
				Reach 3 Subtotal:	597						
		Dos Amigos Pumping Plant	86.73		102,668						
4	14		89.03			5,088	1,033	52	83		
			Thru 94.06	San Luis Water District	5,088						
			89.66								
			Thru 89.67	Pacheco Water District	1,033						
			89.68	Panoche Water District	52						
		Check No. 14	89.70	City of Dos Palos	83						
	15		95.06								
			98.15			604	2,339	3,788			
			Thru 104.20	San Luis Water District	604						
			96.15								
			Thru 102.64	Panoche Water District	2,339						
			102.64	(Floodwater Inflow)							
			102.64	Broadview Water District	0						
			105.22								
			Thru 108.64	Westlands Water District	3,788						
		Check No.15	108.50								
			Reach 4 Subtotal:		12,987	12,987	0	0	0		
			San Felipe Division Total:		11,947	11,947	0	0	0		
			Pacheco Water District Total:		1,033	1,033	0	0	0		
			Broadview Water District Total:		0	0	0	0	0		
			City of Dos Palos Total:		83	83	0	0	0		
			SLWD Reach 4 Subtotal:		5,692	5,692	0	0	0		
			Panoche Water District Total:		2,391	2,391	0	0	0		
			SLWD Total:		6,237	6,237	0	0	0		
			Westlands WD Reach 4 Subtotal:		3,788	3,788	0	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52 Thru 122.05	(Reverse flow, Kings River)	0	4,699					
				Westlands Water District	4,699						
				Dept. of Fish and Game @ Lat. 4L	0						
				Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
	17	Check No. 16	122.07			2,531					
			124.18 Thru 132.74	Westlands Water District	2,531						
	Check No. 17		132.95			4,075					
	18		133.81 Thru 142.61	Westlands Water District	4,075						
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	3,482		3,482				
			143.16	City of Coalinga	348						
		Check No. 18	143.23								
6	19		145.26 Thru 151.19	Reach 5 Subtotal:	15,135	15,135	0	0	0		
				GWF Energy	0	80	2	1/ 145			
				SWP Construction @ Lat. 22R	80						
				City of Huron	2						
				Kings County to Lemoore NAS Through WWD	145						
				Kings County through WWD 30L	0						
				Westlands Water District	3,887						
	Check No. 19		155.64			4,114	3,889	225	0		
				Reach 6 Subtotal:	4,114						
7	20		156.34 156.40 Thru 163.69	City of Huron	81	81	2,624				
				SWP Construction @ Lat. 24R	0						
				Westlands Water District	2,624						
				Check No. 20	164.69						
	21		164.79 167.04 Thru 171.67	City of Avenal	173	173	1,599				
				Westlands Water District	1,599						
				Check No. 21	172.40						
				Reach 7 Total:	65,320						
				Reach 7 Total:	4,477	4,477	0	0	0		
				SWP Const. / GWF Energy	80	0	2/ 80	0	0		
				Westlands WD Total:	26,685	26,685	0	0	0		
				City of Coalinga Total:	348	348	0	0	0		
				City of Huron Total:	83	83	0	0	0		
				Kings County to Lemoore NAS Through WWD	145	0	145	0	0		
				City of Avenal Total:	173	173	0	0	0		
				Total San Luis Field Division Deliveries:	49,258	48,980	225	29	24		

1/ SWP water, from County of Kings to Westlands Water District, Article 56C.

2/ Includes 0 AF of GWF Energy water and 80 AF of DWR construction water 22R.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

March 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Feb 29	29,287								
1	28,596	-691	0	2,743	128	48	676	1,636	-603
2	29,259	663	0	1,900	128	48	676	848	134
3	29,233	-26	0	1,615	128	48	676	922	145
4	29,210	-23	0	1,406	128	48	676	956	390
5	29,371	161	0	1,514	128	48	676	794	213
6	28,610	-761	0	1,388	128	48	676	1,036	116
7	28,164	-446	0	1,882	138	46	527	1,101	-295
8	27,516	-648	0	1,930	138	46	527	1,348	-198
9	28,759	1,243	0	2,175	138	46	527	690	-147
10	29,181	422	0	1,688	138	46	527	832	68
11	28,630	-551	0	722	138	46	527	571	282
12	28,511	-119	0	1,832	138	46	527	1,253	72
13	28,004	-507	0	2,220	138	46	527	1,523	-242
14	28,091	87	0	2,719	86	38	328	1,908	-315
15	28,607	516	0	2,834	86	38	328	1,782	-340
16	27,895	-712	0	2,378	86	38	328	2,076	-209
17	28,501	606	0	2,065	86	38	328	1,501	193
18	29,328	827	0	1,839	86	38	328	1,051	81
19	29,193	-135	0	1,385	86	38	328	1,234	233
20	28,567	-626	0	1,467	86	38	328	1,469	138
21	28,087	-480	0	1,427	89	19	275	1,277	-9
22	27,644	-443	0	1,207	89	19	275	957	-90
23	27,597	-47	0	1,562	89	19	275	1,140	-62
24	27,789	192	0	1,438	89	19	275	857	-102
25	28,684	895	0	1,499	89	19	275	714	50
26	28,399	-285	0	405	89	19	275	210	44
27	28,129	-270	0	927	89	19	275	438	-242
28	27,373	-756	0	1,015	113	48	475	745	-15
29	27,171	-202	0	1,245	120	48	475	572	-131
30	27,171	0	0	1,272	120	48	475	473	-156
31	27,853	682	0	2,092	120	52	480	1,017	-78
Total		-1,434	0	51,791	3,432	1,205	13,871	32,932	-1,075
Mean cfs		---	0	1,671	111	39	447	1,062	-35
Acre-feet		-1,434	0	102,668	6,808	2,391	27,514	65,320	-2,069

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,033 AF to Pacheco W.D., 83 AF to the City of Dos Palos and 5,692 AF to San Luis Water District.

3/ Includes 81 AF to the City of Huron, 173 AF to the City of Avenal, 348 AF to the City of Coalinga, 2 AF to City of Huron P&R @ 22R, 145 AF to Lemoore N.A.S. @29L, 0 AF GWF @ 30L, 0 F to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Pilobos Wildlife @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 80 AF DWR Water Truck @ 22R, 0 AF to DFG @ 7L, 0 AF Non-Project Water, 23,203 AF to Westlands Water District, and 3,482 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

March 2012

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	78	81	40	36	40	3,379	3,262	3,054	3,044
2	88	97	49	43	49	2,829	2,785	2,506	2,455
3	161	169	48	43	51	2,164	2,432	2,216	2,176
4	155	170	51	45	51	2,590	3,221	3,140	3,095
5	135	149	50	46	51	2,701	2,788	2,687	2,599
6	217	216	57	51	57	2,174	2,143	1,999	2,112
7	232	231	42	38	44	2,307	2,184	2,065	1,994
8	194	179	48	42	48	2,146	2,094	1,944	1,901
9	191	172	69	63	63	2,215	2,118	1,952	1,880
10	252	236	47	42	50	2,144	2,030	1,860	1,866
11	144	143	51	44	50	1,937	2,058	1,887	1,887
12	113	121	54	48	56	1,506	2,324	2,176	2,188
13	124	128	54	49	56	2,973	2,869	2,923	2,877
14	134	146	49	44	51	3,461	3,178	3,074	2,992
15	139	143	54	49	55	3,499	3,488	3,285	3,304
16	153	154	55	50	56	2,945	3,807	3,688	3,623
17	137	142	52	46	54	3,920	3,778	3,604	3,540
18	85	80	49	43	52	3,399	3,640	3,592	3,517
19	153	153	49	44	51	3,131	3,399	3,265	3,235
20	219	196	62	55	63	3,084	3,252	3,105	3,078
21	293	284	60	53	63	3,086	3,522	3,425	3,356
22	297	289	56	51	57	2,198	2,411	2,261	2,217
23	254	253	54	59	54	2,568	2,575	2,409	2,370
24	285	258	39	34	41	2,535	2,725	2,569	2,541
25	142	155	45	40	44	2,461	2,534	2,447	2,501
26	27	29	33	29	34	1,574	1,821	1,718	1,740
27	114	124	50	45	51	2,047	2,248	2,130	2,092
28	91	90	46	42	49	2,734	2,768	2,690	2,586
29	145	150	36	32	35	2,296	2,576	2,493	2,378
30	116	121	47	73	48	1,801	1,644	1,691	1,652
31	126	132	56	50	57	2,607	2,404	2,310	2,272
Total	4,994	4,991	1,552	1,429	1,581	80,411	84,078	80,165	79,068

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure										
7	21	Check No. 21	172.40		65,320							
8C	22			Empire West Side ID TL - A	28		1,107			1/ 28		
				172.66 County of Kings TL - A	0					2/ 215		
				Tulare Lake Basin WSD TL-A	1,107					3/ 217		
				175.18 Dudley Ridge WD - 1	215					2/ 736		
				177.54 Dudley Ridge WD - 1B	217					3/ 455		
				180.64 Tulare Lake Basin WSD - C	0					4/ 66		
				180.65 Dudley Ridge WD - 1A	736							
				182.99 Dudley Ridge WD - 2	455							
				183.00 Tulare Lake Basin WSD TL - B	0							
				184.00 County of Kings TL-B	0							
31A	8D			184.00 Dudley Ridge WD - Paramount	0		0	0	0	1,689		
				184.63 Coastal Branch	4,994							
				184.78 Dudley Ridge WD - 3	66					0		
				Dudley Ridge Reach 8D Total:	1,689							
				Tulare Lake Basin WSD Total:	1,107					0		
			Check No. 22	184.82			0	0	0	1,311		
9	23			189.69 Kern County Water Agency Lost Hills Water Dist. - 1	880					880		
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	214					214		
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	29					29		
				196.40 Kern County Water Agency Berrenda Mesa - 2	46					46		
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	142					142		
				K.C.W.A. Reach 9 Subtotal:	1,311					0		
			Check No. 23	197.05						0		
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	293		0	0	0	293		
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	449					449		
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0					1		
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	1							
			Check No. 24	207.94								
			25	209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	599		0	0	0	599		
				209.78 Kern National Wildlife Refuge USBR BV-1B	0							
					364					364		
				209.80 KCWA Semitropic WD	3,064					3,064		
				KCWA Semitropic WSD Penstocks	483					483		
				USBR Total:	0							
				K.C.W.A. Reach 10A Subtotal:	5,253					0		

1/ Article 12E.

3/ Kern Water Bank Recovery.

2/ Table A water transfer.

4/ Includes 49 AF of Table A Water Transfer and 17 AF of Kern Water Bank Recovery.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure										
11B	25		210.75	Kern County Water Agency Belridge - 2	0				174			
			214.11	Kern County Water Agency Belridge - 3	174							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	3,304					3,304		
				Kern County Water Agency Belridge - 5D	129							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	3,607	0	0	0	3,607	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0				301			
				Kern County Water Agency West Kern - 3	301							
	Check No. 26	224.92										
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 5	0							
				Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	0				286			
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	286							
				KCWA Buena Vista - 3	0							
			Check No. 29	244.54								
				KCWA Buena Vista - 4	259							
			Buena Vista Pumping Plant	250.99	80,411							
				K.C.W.A. Reach 13B Subtotal:	545	0	0	0	545	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0				242			
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	242							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending		No.			Table A	USBR	Article 56C	Pumpin Recovery	Other			
	No.	Structure	Mile										
14A	31	Check No. 31	256.14										
	32		258.61		Kern County Water Agency					378			
			260.44		Wheeler Ridge-Maricopa - 3	378				924			
			261.72		Kern County Water Agency	0							
					KCWA Reach 14A Subtotal:	1,544	0	0	1,544	0			
14B	33		264.42		Kern County Water Agency								
			266.91		Wheeler Ridge-Maricopa - 5	1,815				1,815			
			267.36		Kern County Water Agency					363			
	34		270.24		Wheeler Ridge-Maricopa - 6	363				1,550			
			271.27		Kern County Water Agency	0							
					KCWA Reach 14B Total:	3,728	0	0	3,728	0			
14C	35		272.39		Kern County Water Agency								
			276.09		Wheeler Ridge-Maricopa - 8	814				814			
			277.30		Kern County Water Agency	499							
					Arvin-Edison WSD	0				0			
					Reach 14C Total:	1,313	0	0	1,313	0			
15A	36		278.13			84,078							
			279.02		Kern County Water Agency					339			
			280.06		Wheeler Ridge-Maricopa - 9A	339				981			
					Kern County Water Agency	0							
					Wheeler Ridge-Maricopa - 10	981				1,320			
16A	37		280.36			80,165							
			282.06		Kern County Water Agency					26			
			283.95		Wheeler Ridge-Maricopa - 11	26				110			
					Kern County Water Agency	0							
					Wheeler Ridge-Maricopa - 12	110				186			
	38		285.01		Kern County Water Agency					1,062			
			286.39		Wheeler Ridge-Maricopa - 13A	110				119			
			287.06		Kern County Water Agency	0							
			287.09		Wheeler Ridge-Maricopa - 13	0				0			
					Kern County Water Agency	0							
17E	39		287.62		Wheeler Ridge-Maricopa - 13B	186							
			290.21		Kern County Water Agency	0							
					Wheeler Ridge-Maricopa - 14	186				0			
					Kern County Water Agency	1,062				0			
					Wheeler Ridge-Maricopa - 15	119				0			
	40				Kern County Water Agency								
					Tehachapi Cummings CWD	0				0			
					K.C.W.A. Reach 16A Subtotal:	1,503	0	0	1,503	0			
					Edmonston Pumping Plant	79,068							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		4,994	1,131						
		Las Perillas Pumping Plant	1.16		4,994							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		4,991							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	1,131							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	9							
			14.83	Kern County Water Agency Berrenda Mesa - 1	2,031							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		1,552							
				KCWA Reach 31A Subtotal:	2,040	0	0	0	2,040	0		
				KCWA Total:	22,465	0	0	0	22,465	0		
33A	C-7	Bluestone Pumping Plant	19.05		1,429	1,241						
	C-8	Polonio Pass Pumping Plant	26.54		1,581							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,241							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	301							
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0	1,241						
35	C-12			CCWA Total:	1,542		0	301	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0							
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

March 2012

Date	West Branch						East Branch						East Branch Extension				
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Bypass	Tehachapi Afterbay	Generation	Leakage	Bypass Flume						
1	1,469	388	0	0	1,097	0	1,538	0	0	1,485	1,429	0	0	956	29	27	19
2	738	1,450	0	0	317	0	1,270	0	0	928	1,121	0	0	936	38	38	19
3	1,423	1,642	0	0	164	0	1,171	0	0	927	938	0	0	946	38	38	34
4	1,474	1,481	0	0	248	0	1,360	0	83	1,205	1,238	0	0	1,224	26	27	31
5	944	675	0	0	608	0	1,571	0	140	1,391	1,457	0	0	1,081	42	42	32
6	629	613	0	0	719	0	1,230	0	0	1,051	797	0	0	1,172	48	48	32
7	396	825	0	0	508	0	1,449	0	0	1,174	1,198	0	0	1,166	42	42	32
8	524	421	0	0	748	0	1,354	0	0	1,206	1,215	0	0	998	42	42	32
9	397	631	0	0	132	0	1,386	0	0	1,206	1,069	0	0	1,101	42	42	32
10	397	515	0	0	164	0	1,437	0	0	1,081	1,063	0	0	1,192	54	54	32
11	628	0	0	0	390	0	1,245	0	0	1,006	1,017	0	0	1,002	54	54	32
12	935	1,297	0	0	1,406	0	1,275	0	0	1,049	1,101	0	0	1,236	42	42	33
13	1,907	1,882	0	0	1,841	0	1,264	0	0	867	1,113	0	0	1,262	42	42	32
14	2,014	1,853	0	0	2,913	0	933	0	0	773	753	0	0	1,309	53	53	31
15	2,019	2,110	0	0	2,436	25	1,115	0	0	835	706	0	0	1,203	58	58	31
16	2,338	2,285	0	0	2,766	0	1,130	0	0	860	867	0	0	1,108	39	39	32
17	2,403	2,227	0	0	1,683	10	1,141	0	0	1,021	989	0	0	1,014	37	38	31
18	2,229	1,091	0	0	1,042	0	1,224	0	0	1,050	1,046	0	0	815	54	53	31
19	1,977	2,014	0	0	2,709	0	1,305	0	0	1,084	1,053	0	0	1,004	54	53	32
20	2,180	2,151	0	0	1,743	0	1,067	0	0	973	1,201	0	0	912	42	42	31
21	2,331	2,300	0	0	2,450	0	1,047	0	0	794	583	0	0	862	42	42	31
22	1,751	2,172	0	0	1,713	0	372	0	0	325	231	0	0	922	42	42	31
23	1,970	2,173	0	0	1,061	0	442	0	0	245	231	0	0	956	54	54	31
24	1,916	2,176	0	0	1,182	0	642	0	0	557	492	0	0	889	54	54	31
25	1,748	1,577	0	0	2,235	0	638	0	0	463	439	0	0	832	42	42	31
26	741	957	0	0	1,759	0	893	0	0	836	874	0	0	949	42	42	33
27	1,473	1,229	0	0	821	0	636	0	0	526	691	0	0	939	42	42	31
28	1,591	1,458	0	0	2,203	0	1,197	0	0	864	681	0	0	746	54	54	31
29	1,318	1,298	0	0	1,962	0	1,041	0	0	864	823	0	0	838	54	54	32
30	1,271	1,299	0	0	809	0	403	0	0	345	331	0	0	906	42	42	32
31	945	1,181	0	0	188	0	1,163	0	0	1,021	945	0	0	801	41	42	31
Total	44,076	43,371	0	0	40,017	35	33,939	0	223	28,012	27,692	0	0	31,277	1,385	1,384	956

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)		
				Project			Natural	Project			To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.			
Feb 29	2,575	165,955												
1	2,574	165,232	-723	0	388	0	28	1,097	0	28	0	-14		
2	2,575	166,210	978	0	1,450	0	28	317	0	28	0	-155		
3	2,576	167,767	1,557	0	1,642	0	28	164	0	28	0	79		
4	2,577	168,870	1,103	0	1,481	0	28	248	0	28	0	-130		
5	2,577	168,909	39	0	675	0	28	608	0	28	0	-28		
6	2,577	169,141	232	0	613	0	28	719	0	28	0	338		
7	2,577	169,179	38	0	825	0	26	508	0	28	0	-277		
8	2,577	168,729	-450	0	421	0	26	748	0	28	0	-121		
9	2,578	169,334	605	0	631	0	26	132	0	28	0	108		
10	2,578	169,566	232	0	515	0	26	164	0	28	0	-117		
11	2,577	169,141	-425	0	0	0	26	390	0	28	0	-33		
12	2,577	168,948	-193	0	1,297	0	26	1,406	0	28	0	-82		
13	2,577	168,935	-13	0	1,882	0	26	1,841	0	28	0	-52		
14	2,576	167,882	-1,053	0	1,853	0	26	2,913	0	28	0	9		
15	2,576	167,536	-346	25	2,110	0	26	2,436	0	28	0	-43		
16	2,576	167,038	-498	0	2,285	0	26	2,766	0	28	0	-15		
17	2,576	167,754	716	10	2,227	0	65	1,683	0	99	0	196		
18	2,576	167,639	-115	0	1,091	0	123	1,042	0	60	0	-227		
19	2,576	166,898	-741	0	2,014	0	65	2,709	0	50	0	-61		
20	2,576	167,230	332	0	2,151	0	48	1,743	0	50	0	-74		
21	2,576	167,012	-218	0	2,300	0	40	2,450	0	42	0	-66		
22	2,576	167,421	409	0	2,172	0	38	1,713	0	40	0	-48		
23	2,577	168,331	910	0	2,173	0	38	1,061	0	40	0	-200		
24	2,578	169,385	1,054	0	2,176	0	36	1,182	0	40	0	64		
25	2,577	168,896	-489	0	1,577	0	71	2,235	0	40	0	138		
26	2,577	168,061	-835	0	957	0	93	1,759	0	60	0	-66		
27	2,577	168,446	385	0	1,229	0	103	821	0	109	0	-17		
28	2,576	167,613	-833	0	1,458	0	83	2,203	0	97	0	-74		
29	2,576	166,961	-652	0	1,298	0	73	1,962	0	69	0	8		
30	2,576	167,281	320	0	1,299	0	68	809	0	65	0	-173		
31	2,577	168,446	1,165	0	1,181	0	66	188	0	60	0	166		
Total		2,491	35	43,371	0	1,438	40,017	0	1,369	0	0	-967		

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Feb 29	1508.62	18,657								
1	1506.43	17,836	-821	1,097	0	0	0	1,904	-14	
2	1507.25	18,141	305	317	0	0	0	0	-12	
3	1507.62	18,280	139	164	0	0	0	0	-25	
4	1508.39	18,570	290	248	0	0	0	0	42	
5	1510.00	19,184	614	608	0	0	0	0	6	
6	1511.81	19,887	703	719	0	0	0	0	-16	
7	1508.10	18,460	-1,427	508	0	0	0	1,919	-16	
8	1506.98	18,040	-420	748	0	0	0	1,163	-5	
9	1507.25	18,141	101	132	0	0	0	0	-31	
10	1507.80	18,347	206	164	0	0	0	0	42	
11	1508.66	18,672	325	390	0	0	0	0	-65	
12	1507.99	18,419	-253	1,406	0	0	0	1,691	32	
13	1507.11	18,089	-330	1,841	0	0	0	2,161	-10	
14	1508.25	18,517	428	2,913	1	0	1	2,438	-47	
15	1507.85	18,366	-151	2,436	1	25	1	2,562	0	
16	1508.18	18,491	125	2,766	1	0	1	2,641	0	
17	1508.52	18,619	128	1,683	3	10	3	1,567	22	
18	1511.59	19,801	1,182	1,042	3	0	3	0	140	
19	1512.93	20,329	528	2,709	2	0	2	2,164	-17	
20	1508.44	18,589	-1,740	1,743	2	0	2	3,496	13	
21	1508.32	18,543	-46	2,450	1	0	1	2,543	47	
22	1506.65	17,918	-625	1,713	1	0	1	2,272	-66	
23	1504.98	17,302	-616	1,061	1	0	1	1,679	2	
24	1504.51	17,131	-171	1,182	1	0	1	1,353	0	
25	1506.63	17,910	779	2,235	5	0	5	1,490	34	
26	1506.28	17,780	-130	1,759	13	0	13	1,840	-49	
27	1504.35	17,073	-707	821	6	0	6	1,560	32	
28	1506.27	17,777	704	2,203	5	0	5	1,494	-5	
29	1506.09	17,710	-67	1,962	4	0	4	2,024	-5	
30	1505.49	17,489	-221	809	4	0	4	1,021	-9	
31	1506.02	17,684	195	188	4	0	4	0	7	
Total				-973	40,017	58	35	58	40,982	
27										

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows		
				Natural	Project					
Feb29	1499.61	290,368								
1	1500.42	292,069	1,701	0	1,904	4	148	5	1	
2	1500.17	291,543	-526	0	0	4	534	5	1	
3	1499.90	290,976	-567	0	0	4	543	5	1	
4	1499.55	290,242	-734	0	0	4	664	5	1	
5	1499.10	289,300	-942	0	0	4	920	5	1	
6	1498.49	288,025	-1,275	0	0	4	1,262	5	1	
7	1498.69	288,443	418	0	1,919	4	1,503	5	1	
8	1498.46	287,962	-481	0	1,163	4	1,566	5	1	
9	1497.69	286,359	-1,603	0	0	4	1,576	5	1	
10	1496.86	284,636	-1,723	0	0	4	1,654	5	1	
11	1496.14	283,146	-1,490	0	0	4	1,534	5	1	
12	1496.29	283,456	310	0	1,691	4	1,550	4	2	
13	1496.53	283,952	496	0	2,161	4	1,569	4	2	
14	1497.01	284,946	994	0	2,438	4	1,393	4	2	
15	1497.54	286,047	1,101	0	2,562	4	1,560	4	2	
16	1498.05	287,108	1,061	0	2,641	4	1,515	4	2	
17	1498.30	287,629	521	3	1,567	22	1,260	4	2	
18	1497.70	286,379	-1,250	3	0	17	1,190	22	2	
19	1498.25	287,525	1,146	2	2,164	10	1,240	28	2	
20	1499.21	289,530	2,005	2	3,496	7	1,219	29	2	
21	1499.77	290,703	1,173	1	2,543	6	1,296	4	2	
22	1500.21	291,627	924	1	2,272	6	1,311	4	2	
23	1500.41	292,048	421	1	1,679	6	1,350	4	2	
24	1500.38	291,985	-63	1	1,353	5	1,320	4	2	
25	1500.65	292,553	568	5	1,490	47	1,271	4	2	
26	1500.97	293,228	675	11	1,840	66	1,024	80	2	
27	1501.10	293,502	274	5	1,560	28	1,230	28	2	
28	1501.13	293,565	63	5	1,494	19	1,436	28	2	
29	1501.53	294,410	845	5	2,024	15	1,429	28	2	
30	1501.34	294,009	-401	3	1,021	13	1,473	28	2	
31	1500.65	292,553	-1,456	3	0	12	1,438	28	2	
Total				2,185	51	40,982	343	38,978	398	51
										236

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Rec.	Article 56C	Article 14B	Other	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		44,076						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	5,041	43	1,484	442	12,527	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(0 AF of flow through Gorman Creek Imp. Channel)	43,371						
29H	W3	Pyramid Lake		USFS		5,041	43	1,484	442	12,527	
				Pyramid Recreation (T300)	0						
		Pyramid Dam	17.10	United WA (T300)	0						
29J	W4	Castaic Power Plant	25.82	California State Park Piru Fish (T300)	0	5,041	43	1,484	442	12,527	
		Elderberry Forebay		(35 AF pumpback) 2/	0						
		Forebay Dam	28.12								
30 1/	W5	Castaic Lake		California State Park		5,041	43	1,484	442	12,527	
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	43						
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	37,009						
				Castaic Lake WA 18", 24" & 54" (T303)	1,484						
				Castaic Lake WA Rio Vista T.P. (T304)	442						
				MWD-Ventura Co. WPD (T302)	0						
				Disposition of Natural inflows	398						
				Releases to Castaic Lagoon	51						
				Reach 30 Subtotal:	38,978						
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0	5,041	43	1,926	12,527	19,441	
		Castaic Lagoon Outlet	31.87		336						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Withdrawl from flexible water programs.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Feb 29	3350.87	70,998												
1	3351.63	71,720	722	1,429	0	14	0	0	956	0	0	235	0	
2	3351.54	71,634	-86	1,121	0	14	0	0	936	0	0	-285	0	
3	3351.63	71,720	86	938	0	13	0	0	946	0	0	81	0	
4	3351.63	71,720	0	1,238	0	13	0	0	1,224	0	1	-26	0	
5	3352.02	72,092	372	1,457	0	12	0	0	1,081	0	0	-16	0	
6	3351.63	71,720	-372	797	0	11	0	1	1,172	0	0	-7	0	
7	3351.71	71,796	76	1,198	0	12	0	0	1,166	0	1	33	0	
8	3351.93	72,006	210	1,215	0	10	0	0	998	0	0	-17	0	
9	3351.91	71,987	-19	1,069	0	9	0	0	1,101	0	0	4	0	
10	3351.79	71,873	-114	1,063	0	9	0	0	1,192	0	1	7	0	
11	3351.77	71,853	-20	1,017	0	8	0	0	1,002	0	0	-43	0	
12	3351.71	71,796	-57	1,101	0	7	0	0	1,236	0	0	71	0	
13	3351.48	71,577	-219	1,113	0	7	0	0	1,262	0	1	-76	0	
14	3351.04	71,159	-418	753	0	6	0	0	1,309	0	0	132	0	
15	3350.42	70,572	-587	706	0	6	0	0	1,203	0	0	-96	0	
16	3350.14	70,308	-264	867	0	6	3	0	1,108	0	1	-25	0	
17	3350.45	70,601	293	989	0	128	3	0	1,014	0	0	193	0	
18	3350.73	70,865	264	1,046	0	61	0	0	815	0	0	-28	0	
19	3350.78	70,913	48	1,053	0	45	7	0	1,004	0	1	-38	0	
20	3351.18	71,292	379	1,201	0	42	3	0	912	0	0	51	0	
21	3350.87	70,998	-294	583	0	40	3	0	862	0	0	-52	0	
22	3350.14	70,308	-690	231	0	38	3	0	922	0	1	-33	0	
23	3349.43	69,641	-667	231	0	36	3	1	956	0	0	26	0	
24	3348.93	69,173	-468	492	0	34	3	0	889	0	0	-102	0	
25	3348.82	69,070	-103	439	0	98	4	0	832	0	1	197	0	
26	3348.93	69,173	103	874	0	175	3	0	949	0	0	6	0	
27	3348.84	69,089	-84	691	0	115	2	0	939	0	0	51	0	
28	3348.76	69,014	-75	681	0	92	3	0	746	0	1	-98	0	
29	3348.70	68,958	-56	823	0	72	0	0	838	0	0	-113	0	
30	3348.17	68,465	-493	331	0	57	1	0	906	0	0	26	0	
31	3348.40	68,679	214	945	0	53	0	0	801	0	0	17	0	
Total				-2,319	27,692	0	1,243	41	2	31,277	0	9	75	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

March 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Feb 29	1562.72	73,953				
1	1562.66	73,840	-113		84	
2	1562.66	73,840	0		84	
3	1562.66	73,840	0		84	
4	1562.42	73,391	-449		85	
5	1562.50	73,541	150		96	
6	1562.66	73,840	299		84	
7	1562.61	73,747	-93		84	
8	1562.66	73,840	93		85	
9	1562.53	73,597	-243		84	
10	1562.50	73,541	-56		85	
11	1562.50	73,541	0		85	
12	1562.66	73,840	299		95	
13	1562.64	73,803	-37		84	
14	1562.66	73,840	37		84	
15	1562.72	73,953	113		84	
16	1562.64	73,803	-150		84	
17	1562.80	74,103	300		84	
18	1562.80	74,103	0		58	
19	1562.82	74,135	32		58	
20	1562.80	74,103	-32		55	
21	1562.72	73,953	-150		41	
22	1562.77	74,047	94		38	
23	1562.77	74,047	0		72	
24	1562.80	74,103	56		84	
25	1562.80	74,103	0		84	
26	1562.72	73,953	-150		95	
27	1562.75	74,009	56		84	
28	1562.80	74,103	94		85	
29	1562.72	73,953	-150		85	
30	1562.66	73,840	-113		89	
31	1562.72	73,953	113		89	
Total			0	3,669	2,472	-1,197

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Recreation	Article 56C	Article 14B	Others	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45		79,068						
	41		298.65	KCWA Tej.-Cas	Stub						
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0			531			
		Check No. 42	304.99								
	43	Alamo Powerplant	305.73	(Includes 33,939 AF generation, 0 AF plant bypass, and 223 AF Tehachapi bypass)	34,162						
19	44		306.71	AVEK 305th Street West (T287)	531			2,538			
			308.05	AVEK 294th Street West (T267)	0						
		Check No. 43	309.70								
	45		311.84	LADWP Connection	0						
			313.50	AVEK 245th Street West (T269)	0						
	46		Check No. 44	314.81							
			314.93	AVEK 235th Street West (T270)	0						
	47		315.57	AVEK 225th Street West (T271)	0						
			Check No. 45	319.74							
20A	48			Palmdale WD (84)	0			1,850			
				Antelope Valley-East Kern WA Fairmont (T272)	2,538						
			323.19	Mojave Water Agency Fairmont (T272)	110						
			Check No. 46	323.84							
				Reach 19 Total:	3,179						
					0						
	49	Check No. 47	326.77					43			
	50		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	23						
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed						
			Check No. 48	330.82							
20B	51		Check No. 49	335.93							
			336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	1,850						
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	28						
			340.92	AVEK WA-Temp (T387)	0						
			341.51								
			342.06	AVEK WA-Temp (T386)	0						
21	52		Check No. 50	342.07				104			
			342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0						
			Check No. 52	343.74							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	43						
			Check No. 53	348.17							
22A	54	Check No. 54	350.25					1			
		Check No. 55	352.70								
		Check No. 56	354.76								
			354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0						
			354.97	Palmdale WD (T276)	620						
			354.97	Palmdale WD (T391)	0						
	58	Check No. 57	356.93								
			357.60	AVEK 95th Street East (T279)	0						
			357.72	AVEK 96th Street East (T280)	0						
			359.76	AVEK East Side Treatment Plant (T281)	0						

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

March 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Rec.	Article 56C	Article 14B	Others		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		28,012							
	59	Check No. 59	366.09									
	60		366.50		AVEK Big Rock Siphon (T368)							
		Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63		389.20		Mojave Water Agency							
		Check No. 63			White Road 24" & 42" (T282)							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
23	66		401.10		Mojave Water Agency							
		Check No. 66	403.41		Morongo 24" & 42" (T284)							
24	Mojave Siphon	405.58			Las Flores Ranch Exchange	0						
	Mojave Siphon Powerplant	405.65				27,692						
	Silverwood Lake	407.65			MWA CS DAM (T288)	0						
					California State Park Silverwood (T288)	2						
		407.70			Crestline-Lake Arrowhead WA State Project Water (T289)	0						
25	San Bernardino Intake Tunnel				Non-Project Water (T289)	0						
26A	Devil Canyon Powerplant	412.73				31,277						
	Devil Canyon Afterbay Control Structures	412.88			MWD-Rialto (T292)	0						
					MWD-Rialto (T293)	19,271						
					MWD-Rialto (T294)	2,573						
					Desert Water Agency Transfer (T293)	0						
	East Branch Extension	412.88			Coachella Valley WD Transfer (T293)	0						
					MWD EBX-1 (T290)	0						
					MWD EBX-1 (T291)	0						
					Santa Ana River turn in (T403)	7						
					San Bernardino Valley MWD (T291)	1,433						
EBX	Santa Ana Valley Pipeline	425.46			San Bernardino Valley MWD (T407)	292						
					San Gorgonio Pass WA (T413)	1,107						
28G												
28H												
28J												
28J	Lake Perris	442.00			MWD-SC (T297)	169						
					MWD-SC 54" & 78" (T299)	2,276						
					Calif. State Park							
					Lake Perris Recreation (T298)	27						
					MWD Total:	65,497						

1/ Waterbank recovery.

Table 32. Water Quality At Selected SWP Locations

March 2012

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	40	109	111	92	100	79	79	79	77
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.5	0.3	0.4	0.2	0.2	0.2	0.1
Bromide	mg/l	<0.01	0.04	0.36	0.28	0.32	0.28	0.21	0.18	0.25
Calcium	mg/l	9	17	40	28	31	25	28	24	22
Chloride	mg/l as C	1	27	117	88	104	85	58	56	84
Chromium	mg/l as C	<0.001	<0.001	0	<0.001	<0.001	<0.001	0	0	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	<0.001	0	0
Hardness	mg/l	39.000	117.000	195.000	144.000	160.000	128.000	97.000	95.000	73.000
Iron	mg/l	0.005	0.082	0.020	0.038	0.025	0.009	0.005	<0.005	0.009
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	18	23	18	20	16	7	8	14
Manganese	mg/l	<0.005	0.028	0.021	0.013	0.015	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.050	1.500	1.000	1.000	0.650	1.100	0.790	0.480
Organic Carbon, Dissolved	mg/l	NR	15	6	7	6	5	3	3	4
Organic Carbon, Total	mg/l as N	NR	16.400	5.700	7.100	6.100	5.300	2.400	3.050	3.600
Phosphate-Ortho	mg/l as P	<0.01	0.04	0.11	0.06	0.07	0.05	NR	0.02	0.02
Phosphorus-Total	mg/l	<0.01	0.20	0.16	0.08	0.11	0.06	0.03	0.04	0.03
Selenium	mg/l	<0.001	<0.001	0.00	0.00	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	4.000	41.000	102.000	68.000	79.000	66.000	48.000	47.000	59.000
Specific Conductance	µS/cm	86	390	808	564	678	513	451	422	503
Sulfate	mg/l	2	44	104	63	79	48	40	36	39
Total Dissolved Solids	mg/l	50	227	469	336	397	295	250	233	278
Turbidity	NTU	2	22	7	4	3	3	2	4	<1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

Table 33. Water Quality At Selected Delta Stations

March 2012

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in millisiemens/cm									Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.21	3.62	10,200	10,200	9,261	0.55	2.09	0.25	0.26	0.34	0.38	0.60	0.88	0.70	80
2	4.99	3.35	11,565	10,883	9,334	0.50	1.59	0.23	0.26	0.35	0.38	0.59	0.68	0.68	81
3	4.99	3.32	11,395	11,053	9,453	0.49	1.65	0.24	0.26	0.35	0.37	0.64	0.63	0.80	81
4	5.23	3.43	10,776	10,984	9,066	0.52	2.33	0.24	0.25	0.33	0.37	0.62	0.63	0.81	81
5	5.58	3.67	10,466	10,880	8,783	0.59	3.49	0.25	0.25	0.35	0.36	0.60	0.68	0.80	74
6	5.77	3.82	8,273	10,446	7,919	0.69	4.14	0.26	0.25	0.36	0.36	0.59	0.68	0.73	71
7	5.21	3.36	8,612	10,184	8,189	0.55	2.67	0.25	0.25	0.34	0.36	0.61	0.62	0.77	68
8	5.06	3.30	8,335	9,953	8,035	0.61	2.92	0.26	0.25	0.34	0.35	0.62	0.66	0.87	66
9	5.05	3.32	7,700	9,702	7,509	0.65	3.02	0.26	0.25	0.34	0.35	0.61	0.66	0.79	68
10	5.35	3.59	7,402	9,472	7,336	0.79	4.09	0.31	0.25	0.35	0.35	0.63	0.79	0.67	66
11	5.84	3.77	6,984	9,246	6,787	0.94	4.42	0.37	0.26	0.36	0.35	0.61	0.78	0.62	65
12	5.84	3.69	7,346	9,088	7,157	0.89	4.16	0.35	0.27	0.36	0.35	0.63	0.73	0.66	63
13	6.26	3.90	7,588	8,972	7,393	1.22	5.57	0.45	0.29	0.39	0.35	0.58	0.72	0.67	62
14	6.35	4.20	7,607	8,875	7,114	1.35	4.80	0.43	0.30	0.40	0.35	0.62	0.48	0.66	60
15	5.98	4.09	11,939	9,079	9,778	1.12	4.28	0.33	0.30	0.38	0.36	0.55	0.33	0.72	58
16	6.08	4.36	17,713	9,619	14,003	1.08	4.37	0.29	0.31	0.37	0.36	0.56	0.40	0.72	55
17	6.31	4.53	28,417	10,725	21,851	0.92	3.26	0.24	0.31	0.37	0.36	0.54	0.24	0.69	55
18	6.30	4.73	45,649	12,665	33,972	0.71	2.15	0.20	0.30	0.35	0.36	0.54	0.36	0.63	55
19	5.75	4.15	51,130	14,689	40,495	0.48	0.66	0.16	0.30	0.32	0.36	0.59	0.46	0.67	53
20	5.50	3.92	45,967	16,253	37,714	0.38	0.38	0.14	0.29	0.30	0.35	0.56	0.56	0.67	54
21	5.39	3.88	39,319	17,352	32,548	0.35	0.30	0.13	0.28	0.28	0.35	0.52	0.65	0.63	54
22	5.68	4.15	30,340	17,942	26,481	0.33	0.28	0.14	0.27	0.27	0.34	0.56	0.71	0.63	54
23	5.76	4.01	23,326	18,176	20,788	0.31	0.26	0.14	0.26	0.26	0.34	0.59	0.75	0.63	52
24	5.87	4.13	19,611	18,236	17,631	0.30	0.28	0.14	0.25	0.25	0.33	0.64	0.79	0.62	52
25	5.90	4.14	16,486	18,166	15,044	0.29	0.26	0.15	0.24	0.25	0.32	0.63	0.55	0.67	52
26	5.86	4.10	19,108	18,202	15,781	0.28	0.29	0.15	0.22	0.25	0.32	0.55	0.35	0.64	49
27	5.94	4.51	18,994	18,231	15,762	0.27	0.37	0.16	0.20	0.24	0.31	0.51	0.50	0.64	48
28	6.14	4.37	20,558	18,314	16,155	0.27	0.41	0.16	0.18	0.24	0.30	0.51	0.18	0.61	48
29	5.57	4.15	27,573	18,634	20,731	0.26	0.28	0.17	0.17	0.24	0.29	0.61	0.32	0.76	47
30	5.38	4.19	28,943	18,977	23,480	0.26	0.23	0.18	0.16	0.24	0.28	0.60	0.49	0.76	49
31	6.02	4.69	34,298	19,472	29,884	0.25	0.32	0.18	0.16	0.24	0.27	0.54	0.59	0.70	49

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

March 2012

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 21, 2012	Triclopyr MCPP 2,4-D Diuron	0.20 0.20 1.40 0.35
California Aqueduct At Banks Pumping Plant	March 21, 2012	Diuron	0.27
O'Neill Forebay Outlet Check 13	March 20, 2012	Diuron	0.38
Delta Mendota Canal At McCabe Road	March 20, 2012	Diuron	0.35
California Aqueduct Near Kettleman City (Check 21)	March 20, 2012	Simazine	0.04
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.70
California Aqueduct at Tehachapi Afterbay (Check 41)	March 21, 2012	Diuron	1.20
California Aqueduct At Devil Canyon Headworks	March 21, 2012	Diuron	0.39

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load	March 2012
	Generation	Load			Total Load	SWP Load			
1	3,385,349	3,685	4,203	6,829	404,584	404,584	256,325	886	
2	3,375,548	3,674	3,057	4,730	760,960	760,960	256,140	913	
3	3,390,123	3,597	8,721	6,293	753,144	753,144	248,611	900	
4	2,935,977	3,586	10,133	8,402	852,544	852,544	273,913	922	
5	2,890,448	3,443	6,183	4,164	494,344	494,344	270,091	924	
6	2,069,188	6,534	7,114	4,455	831,672	831,672	275,990	919	
7	2,181,179	6,644	7,915	8,754	831,984	831,984	223,373	910	
8	2,175,899	6,424	3,504	3,866	831,488	831,488	278,576	917	
9	2,165,636	6,556	1,302	4,114	670,184	670,184	298,379	924	
10	2,176,152	6,303	417	6,302	614,144	614,144	289,220	924	
11	2,189,209	6,116	395	1,546	588,232	588,232	216,465	886	
12	2,180,464	6,567	119	150	612,880	612,880	211,607	924	
13	2,134,165	7,755	0	0	229,320	229,320	184,682	924	
14	3,610,750	4,070	0	0	229,392	229,392	189,700	924	
15	3,611,069	3,146	0	0	228,176	228,176	159,858	924	
16	2,878,095	4,213	0	0	228,072	228,072	161,293	915	
17	370,920	8,327	0	0	268,832	268,832	189,174	951	
18	909,139	8,448	0	0	611,032	611,032	164,041	945	
19	968,726	8,206	0	0	826,808	826,808	20,411	935	
20	2,217,996	6,347	0	0	1,211,552	1,211,552	28,879	918	
21	1,409,089	7,843	0	0	1,212,352	1,212,352	140,356	918	
22	1,938,728	6,622	0	0	926,104	926,104	132,020	914	
23	1,905,387	6,732	0	0	668,768	668,768	123,946	930	
24	1,945,537	6,721	0	0	614,360	614,360	148,938	940	
25	1,901,999	7,920	0	0	229,288	229,288	148,835	913	
26	4,469,201	2,574	0	0	229,248	229,248	162,793	902	
27	2,370,445	2,772	0	0	611,032	611,032	217,195	895	
28	2,020,084	4,444	0	0	1,210,392	1,210,392	192,833	904	
29	1,654,477	4,829	0	0	1,846,088	1,846,088	239,733	910	
30	1,931,721	5,104	3,944	0	2,900,480	2,900,480	212,503	923	
31	1,853,225	5,016	4,162	0	2,819,728	2,819,728	253,085	919	
Total	71,215,925	174,218	61,169	59,605	25,347,184	25,347,184	6,168,964	28,455	

Table 36. San Luis Field Division Energy Data

(in kWh)

March 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load /1	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	725,112	-306,888	862,895	-193,105	2,904	2,904
2	538,396	-277,604	245,157	-590,843	16,489	16,489
3	449,334	-366,666	0	0	125,400	125,400
4	391,273	-160,727	290,906	3,906	1,560,383	1,560,383
5	418,640	-133,360	1,253,296	-468,704	0	0
6	384,242	-167,758	296,549	-933,451	14,982	14,982
7	497,966	233,966	203,654	-780,346	17,237	17,237
8	521,608	473,608	0	0	549,780	549,780
9	602,327	554,327	0	0	1,075,041	-28,959
10	475,713	427,713	0	0	20,944	20,944
11	201,269	155,269	0	0	1,026,817	-31,183
12	514,015	466,015	0	0	283,481	7,481
13	606,253	558,253	0	0	333,784	15,784
14	789,259	573,259	0	0	21,219	21,219
15	801,284	585,284	1,014,035	1,014,035	22	22
16	658,573	442,573	1,009,118	1,009,118	0	0
17	580,786	364,786	875,182	875,182	2,794	2,794
18	464,594	248,594	0	0	21,197	21,197
19	373,923	157,923	0	0	1,422,685	1,422,685
20	400,621	184,621	0	0	2,887,918	2,887,918
21	393,401	193,401	0	0	3,414,444	1,830,444
22	339,163	171,163	0	0	2,605,185	229,185
23	439,814	271,814	0	0	2,335,377	1,063,377
24	404,411	236,411	0	0	2,322,606	-53,394
25	441,110	273,110	0	0	2,305,556	1,057,556
26	130,642	-37,358	0	0	1,276,814	28,814
27	267,856	99,856	0	0	1,276,715	28,715
28	288,711	120,711	0	0	1,276,693	964,693
29	378,508	210,508	0	0	1,276,176	1,276,176
30	351,464	183,464	0	0	1,278,035	1,278,035
31	572,616	404,616	0	0	1,281,588	1,281,588
Total	14,402,885	6,140,885	6,050,792	-64,208	30,032,266	15,612,266

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

March 2012

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	6,149	15,752	28,190	27,212	28,389	822,685	850,165	1,837,627	6,853,410
2	6,794	17,718	34,434	31,736	34,766	685,078	706,873	1,527,240	5,466,366
3	11,747	30,814	33,751	31,943	35,464	529,873	633,073	1,361,866	4,896,639
4	11,280	31,064	36,216	33,314	35,817	635,870	840,249	1,895,091	6,969,888
5	10,182	25,850	35,312	32,934	36,356	645,601	729,061	1,616,758	5,932,170
6	16,113	41,566	39,967	37,642	40,111	522,436	564,932	1,226,951	4,417,524
7	17,461	46,706	30,076	28,212	31,044	555,890	577,125	1,252,130	4,427,919
8	14,868	40,067	34,265	31,475	34,115	515,781	551,813	1,181,697	4,202,280
9	14,523	38,612	48,065	46,068	49,608	531,378	559,640	1,187,439	4,181,841
10	18,259	50,078	33,505	31,443	34,978	515,126	516,026	1,128,380	4,130,568
11	9,854	28,320	34,963	31,252	34,026	406,759	485,159	1,046,441	3,817,503
12	8,514	22,112	38,097	35,883	38,807	501,629	599,409	1,305,744	4,840,830
13	9,365	24,500	38,153	35,734	38,804	728,122	806,722	1,745,920	6,467,634
14	9,942	26,418	34,646	32,325	35,559	838,885	842,387	1,877,216	6,743,979
15	10,277	26,930	38,259	36,272	38,838	842,924	905,587	1,992,562	7,409,178
16	11,769	28,184	38,914	37,144	39,354	918,715	1,006,646	2,229,249	8,129,592
17	10,883	31,416	36,652	34,319	37,650	925,067	997,452	2,172,137	7,950,825
18	6,579	15,914	34,795	31,955	36,091	811,107	956,425	2,157,562	7,887,132
19	11,544	29,576	34,298	32,766	36,074	754,292	877,801	1,945,977	7,255,548
20	16,568	43,118	43,167	40,482	43,897	745,652	845,278	1,867,393	6,789,690
21	22,144	55,938	42,543	38,949	43,517	749,945	919,481	2,056,065	7,515,612
22	22,412	57,883	39,334	37,213	39,914	536,695	634,489	1,372,404	4,933,575
23	19,156	50,285	37,812	35,361	38,106	638,615	673,353	1,463,572	5,260,842
24	21,585	58,711	28,455	25,985	29,280	620,752	706,882	1,567,104	5,596,803
25	10,733	28,401	31,996	30,366	31,473	590,278	665,827	1,471,250	5,503,572
26	2,710	6,334	23,551	22,069	24,055	380,263	479,781	1,036,112	3,844,395
27	9,074	22,575	35,213	33,182	36,198	492,125	589,367	1,267,013	4,632,444
28	7,053	18,524	32,557	31,182	34,618	654,628	725,033	1,606,033	5,801,679
29	10,718	27,252	25,952	24,691	24,948	545,953	677,203	1,471,404	5,411,529
30	8,852	23,480	33,470	30,598	33,856	435,784	476,075	1,017,599	3,658,851
31	9,478	25,051	39,545	37,003	39,932	635,744	637,353	1,396,791	5,036,013
Total	376,586	989,146	1,096,153	1,026,710	1,115,645	19,713,647	22,036,667	48,280,727	175,965,831

Table 38. Southern Field Division Energy Data

(in kWh)

March 2012

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	390,644	242,997	1,152,000	176,724	1,007,179	1,147,896	109,625	18,711	24,064	2,098
2	200,651	893,884	1,152,000	139,192	634,164	1,132,873	85,447	22,418	32,025	3,196
3	374,493	1,014,690	1,152,000	134,123	636,519	1,144,890	66,315	22,618	32,074	3,163
4	417,037	922,952	1,152,000	159,149	810,431	1,503,353	85,407	15,551	21,235	3,166
5	253,050	416,993	528,000	184,163	936,313	1,320,034	106,787	27,108	36,665	3,823
6	169,642	382,663	528,000	140,016	720,179	1,436,724	51,503	28,554	39,589	4,104
7	110,613	456,924	528,000	170,700	798,522	1,427,800	81,329	24,913	34,794	4,100
8	141,418	239,833	528,000	159,558	820,260	1,210,756	83,624	25,365	34,849	4,117
9	107,841	393,123	528,000	164,277	824,564	1,343,804	67,425	25,311	34,939	4,217
10	109,250	301,147	528,000	171,067	735,682	1,464,894	67,539	32,034	45,853	4,257
11	142,202	0	506,000	144,570	687,757	1,220,224	64,848	30,994	43,813	4,063
12	246,914	715,454	1,680,000	147,169	717,507	1,523,538	72,008	26,437	34,997	4,337
13	501,505	1,060,641	1,680,000	142,084	591,395	1,551,215	72,689	26,207	34,909	4,427
14	525,972	1,053,041	1,680,000	99,937	532,550	1,609,164	48,567	32,797	45,223	4,340
15	528,746	1,194,418	1,680,000	125,395	571,838	1,494,842	45,334	35,353	49,341	4,281
16	615,964	1,267,547	1,680,000	128,404	588,182	1,379,261	67,376	24,043	33,420	4,240
17	632,182	1,232,712	1,680,000	131,630	691,303	1,275,941	74,166	22,752	32,105	4,229
18	590,056	611,304	1,680,000	143,477	714,253	1,016,960	68,402	32,073	44,773	4,129
19	524,116	1,121,639	1,968,000	154,766	738,696	1,268,694	68,349	34,136	47,785	3,693
20	574,531	1,206,500	1,968,000	120,882	663,714	1,148,393	84,898	25,916	34,906	4,108
21	615,873	1,293,019	1,968,000	112,870	543,745	1,074,920	36,941	25,893	34,963	4,267
22	459,757	1,210,415	1,968,000	39,072	228,601	1,142,456	13,587	25,986	34,947	4,473
23	523,368	1,210,947	1,968,000	47,291	179,000	1,192,460	14,126	32,487	45,658	4,376
24	505,239	1,209,163	1,968,000	68,866	382,969	1,111,979	31,548	32,699	46,261	4,254
25	461,614	911,355	1,968,000	67,675	319,367	1,050,124	28,127	25,723	34,830	4,246
26	200,750	528,849	1,200,000	93,740	573,111	1,184,123	63,156	25,587	34,853	4,266
27	388,086	712,673	1,200,000	69,073	361,370	1,168,484	49,235	25,639	34,809	4,254
28	418,881	841,223	1,200,000	133,728	589,446	926,928	53,604	32,824	45,799	4,249
29	348,048	760,979	1,200,000	112,791	587,286	1,056,917	65,183	32,990	45,985	4,271
30	336,916	760,250	1,200,000	42,733	243,731	1,126,116	21,205	25,666	34,889	4,299
31	251,015	686,840	1,200,000	128,855	689,644	1,019,095	75,448	25,277	34,847	4,291
Total	11,666,374	24,854,175	41,018,000	3,853,977	19,119,277	38,674,858	1,923,795	844,064	1,165,199	125,334

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.